

AMENDMENT IN THE CLAIMS

No amendment has been made by this Amendment.

1 1. (Previously Presented) A bias-T apparatus comprising:

2 a housing comprising an input connector to be connected to a ground base transceiver
3 station and an output connector to be connected to an antenna, said input connector and said
4 output connector integrally formed at opposite sides of the housing, the housing having a
5 housing hole and a fixing hole, the housing hole being formed longitudinally in the housing, the
6 fixing hole connected perpendicularly to the housing hole;

7 a center conductor inserted in the housing hole and including a first conductor having a
8 reception tube and a second conductor having a conductor shaft with an outer surface shape
9 corresponding to a inner surface shape of the reception tube, the conductor shaft being inserted in
10 the reception tube to function as electrode plates of a capacitor, the first conductor and the
11 second conductor having a first connector pin and a second connector pin, respectively, the first
12 connector pin and the second connector pin being respectively inserted inside of the output
13 connector and the input connector to enable electric connection of a signal between the input
14 connector and the output connector; and

15 a fixing pin having a first end connected perpendicularly to the first conductor of the
16 center conductor and a second end inserted in the fixing hole to fix the first conductor to the
17 housing and to supply direct current power from the second end to the output connector.

1 2.(Original) The bias-T apparatus as claimed in claim 1, wherein the housing further
2 has a recess for receiving elements of the bias-T apparatus, the recess being formed at an upper
3 portion of the housing, which is located above and connected to the fixing hole.

1 3.(Previously Presented) A center conductor of a bias-T apparatus, the bias-T
2 apparatus having a housing which has a housing hole and includes an input connector and an
3 output connector formed at opposite sides of the housing hole, the input connector being
4 connected to a ground Base Station Transceiver (BTS), the output connector being connected to
5 an antenna, the bias-T apparatus enabling electric connection of a signal between the input
6 connector and the output connector and supplying direct current power to the output connector,
7 the center conductor comprising:

8 a first conductor being inserted in the housing hole, extending in a longitudinal direction
9 of the housing hole, and having a reception tube; and

10 a second conductor being inserted in the housing hole, the second conductor extending in
11 a longitudinal direction of the housing hole, the second conductor having a conductor shaft, the
12 conductor shaft being inserted in the reception tube to make the conductor shaft and the
13 reception tube function as electrode plates of a capacitor, wherein
14 at least one of an inner surface of the reception tube and an outer surface of the conductor
15 shaft is anodized.

1 4.(Previously Presented) A bias-T apparatus comprising:

2 a housing including an input connector and an output connector, the housing having a
3 first hole and a second hole, the first hole being formed longitudinally in the housing, the second
4 hole being formed perpendicularly to the housing hole;

5 a center conductor mounted in the first hole to enable electric connection of a signal
6 between the input connector and the output connector, the center conductor comprising a first
7 conductor having a reception tube and a second conductor including a conductor shaft with an
8 outer surface shape corresponding to a inner surface shape of the reception tube, the conductor
9 shaft being inserted in the reception tube to function as electrode plates of a capacitor, the first
10 conductor and the second conductor having a first connector pin and a second connector pin,
11 respectively, the first connector pin and the second connector pin being respectively inserted
12 inside of the output connector and the input connector; and

13 a fixing pin connected perpendicularly to the first conductor of the center conductor
14 through said second hole to fix the first conductor to the housing and to supply direct current
15 power to the output connector.

1 5.(Previously Presented) The bias-T apparatus as claimed in claim 4, wherein the
2 housing further has a recess for receiving elements of the bias-T apparatus, the recess being
3 formed at an upper portion of the second hole of the housing.

1 6.(Canceled)

1 7.(Canceled)

1 8. (Previously Presented) The bias-T apparatus of claim 1, wherein at least one of an
2 inner surface of the reception tube and an outer surface of the conductor shaft is anodized.

1 9.(Previously Presented) The bias-T apparatus of claim 4, wherein said center conductor
2 has a third hole, and said fixing pin screws said third hole through said second hole.

1 10.(Canceled)

1 11.(Previously Presented) The bias-T apparatus of claim 4, wherein at least one of an
2 inner surface of the reception tube and an outer surface of the shaft is anodized.

1 12.(Previously Presented) The bias-T apparatus of claim 4, wherein said center
2 conductor has a first connector pin to be connected to a ground base transceiver station through
3 said input connector and a second connector pin to be connected to an antenna through said
4 output connector.

1 13. (Previously Presented) The bias-T apparatus of claim 12, wherein said first connector
2 pin is removably mounted on said first conductor.

1 14.(Previously Presented) The bias-T apparatus as claimed in claim 12, wherein the
2 housing further has a recess for receiving elements of the bias-T apparatus, the recess being
3 formed at an upper portion of the second hole of the housing.

1 15.(Previously Presented) The bias-T apparatus of claim 14, wherein said recess is
2 formed to accommodate an electromagnetic interference (EMI) filter including coils and
3 dielectric materials.

1 16. (Previously Presented) The bias-T apparatus of claim 14, wherein said recess is
2 formed to accommodate a gas tube arrester and diodes for protecting the ground base transceiver
3 station from surge voltage introduced from the output connector.

1 17. (Previously Presented) The bias-T apparatus of claim 14, wherein said center
2 conductor has a third hole, and said fixing pin screws said third hole through said second hole.